



ST. THOMAS COLLEGE (AUTONOMOUS)
THRISSUR, KERALA - 680 001



NAAC 4th Cycle Accreditation

College with Potential for Excellence
NIRF Ranking 2021: 64

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Certificate

This is to certify that the following data provided include the course pattern of various UG and PG programmes offered in the curriculum.



Principal

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St. Thomas College (Autonomous)
Thrissur - 680 001

Course Pattern

PG & UG
Programmes





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M.Sc. BOTANY

Semester	Course	Credits	Weightage
I	Phycology, Bryology, Pteridology and Gymnosperms	5	35
	Mycology and Lichenology, Microbiology and Plant Pathology	5	35
	Angiosperm Anatomy, Embryology, Palynology and Lab Techniques	5	35
	Practicals of Phycology, Bryology, Pteridology, Gymnosperms, Mycology and Lichenology	2.5	
	Practicals of Microbiology, Plant Pathology, Angiosperm anatomy, Embryology, Palynology and Lab Techniques.	2.5	
II	Cell Biology, Molecular Biology and Biophysics	5	35
	Cytogenetics, Genetics, Biostatistics, Plant Breeding and Evolution	5	35
	Plant Ecology, Conservation Biology, Phytogeography and Forest Botany	5	35
	Practicals of Cell Biology, Molecular Biology, Biophysics and Cytogenetics	2.5	
	Practicals of Genetics, Biostatistics, Plant Breeding, Plant Ecology, Conservation Biology, Phytogeography and Forest Botany	2.5	
III	Plant Physiology, Metabolism and Biochemistry	5	35
	Angiosperm Morphology, Taxonomy and Plant Resources	5	35
	Biotechnology and Bioinformatics	5	35
	Practicals of Plant Physiology, Metabolism, Biochemistry, Angiosperm Morphology and Taxonomy	2.5	
	Practicals of Plant Resources, Biotechnology and Bioinformatics	2.5	
IV	Elective I (Environmental biology and biodiversity conservation)	5	35
	Elective II (Genetic engineering)	5	35
	Practicals of Electives	2	
	Dissertation	5	35
	Viva voce	3	
Total Credits		80	
ACIAEC	Ability Enhancement Course (Scientific Documentation and Report writing)	4	
AC2PCC	Professional Competency (Intellectual Property Rights)	4	



M.Sc. CHEMISTRY

Semester	Course	Credits	Weightage
I	Quantum Mechanics and Computational Chemistry	4	30
	Elementary inorganic chemistry	4	30
	Structure and reactivity of organic Compounds	4	30
	Thermodynamics, kinetics, and catalysis	4	30
	Total credits	16	
II	Group theory and Chemical Bonding	3	30
	Coordination chemistry	3	30
	Reaction mechanism in Organic Chemistry	3	30
	Electrochemistry, solid state chemistry and Statistical Thermodynamics	3	30
	Inorganic chemistry practical II	3	
	Organic chemistry practical II	3	
	Physical chemistry practical II	3	
	Total credits	21	
III	Molecular spectroscopy	4	30
	Organometallic & Bioinorganic chemistry	4	30
	Reagents and Transformations in Organic Chemistry	4	30
	Synthetic organic chemistry(Elective)	4	30
	Computational chemistry(Elective)	4	
	Green and Nanochemistry(Elective)		
	Total credits	16	
IV	Instrumental Methods of Analysis	4	30
	Inorganic Chemistry Practical IV	3	3
	Organic Chemistry Practical IV	3	3
	Physical Chemistry Practical IV	3	3
	Petrochemicals and Cosmetics(Elective)	4	4
	Industrial Catalysis(Elective)	4	4
	Natural products & Polymer Chemistry (Elective)	4	30
	Material Science (Elective)	4	
	Organometallic Chemistry	4	
	Research Project	3	
	Viva Voce		
Total credits	27		



M.Com.

Semester	Course	Credits	Weightage
I	Business Environment & Policy	4	30
	Corporate Governance & Business Ethics	4	30
	Quantitative Techniques for Business Decisions	4	30
	Management Theory and Organizational Behaviour	4	30
	Advanced Management Accounting	4	30
	Total in Semester One	20	
	Audit course: Internship cum Organization Study	4	
II	Advanced Corporate Accounting	4	30
	Advanced Strategic Management	4	30
	Advanced Strategic Cost Accounting	4	30
	International Business	4	30
	Management Science	4	30
	Total in Semester Two	20	
	Professional competency course: Spread Sheet Application	4	
III	Financial Management	4	30
	Income Tax Law, Practice and Tax Planning I	4	30
	Research Methodology	4	30
	Elective I	4	30
	Elective II	4	30
	Total in Semester Three	20	
IV	Financial Derivatives & Risk Management	4	30
	Income Tax Law, Practice and Tax Planning II	4	30
	Elective III	4	30
	Elective IV	4	30
	Project Work & Comprehensive Viva Voce	4	30
	Total in Semester Four	20	
	Grand Total (5.1+5.1.1+5.2+5.2.1+5.3+5.4)	88	



M.Sc. COMPUTER SCIENCE

Semester	Course	Credits	Weightage
I	Discrete Mathematical Structures	4	5
	Advanced Data Structures	4	5
	Theory of Computation 0	4	5
	The Art of Programming Methodology	4	5
	Computer Organization Architecture	4	5
	Practical I	2	5
	Introduction to Research (Ability Enhancement Audit Course)	4	5
II	Design and Analysis of Algorithms	4	5
	Operating System Concepts	4	5
	Computer Networks	4	5
	Computational Intelligence	4	5
	Principles of Software Engineering	4	5
	Practical II	2	5
	Term Paper (Professional Competency Audit Course)	4	5
III	Advanced Database Management System	4	5
	Object Oriented Programming Concepts	4	5
	Principles of Compilers	4	5
	Elective I	4	5
	Elective 2	4	5
	Practical III	2	5
IV	Elective 3	3	5
	Elective 4	3	5
	Project Requirements Analysis & Design Related Discussion	8	5
	Project Coding, Testing & Implementation Related Discussion		
	Project Evaluation & Assessment		
	Project Lab Work		
	Total credits excluding audit courses	80	



MA ECONOMICS

Semester	Course	Credits	Weightage
I	ECO1 C01 Microeconomics: Theory and Applications I	5	35
	ECO1 C02 Macroeconomics: Theories and Policies I	5	35
	ECO1 C03 Indian Economy: Problems and Policies	5	35
	ECO1 C04 Quantitative Methods for Economic Analysis I	4	35
	ECO1 A01 Ability Enhancement Course	4*	35
II	ECO2 C05 Microeconomics: Theory and Applications II	5	35
	ECO2 C06 Macroeconomics: Theories and Policies II	5	35
	ECO2 C07 Public Finance: Theory and Practice	5	35
	ECO2 C08 Quantitative Methods for Economic Analysis II	5	35
	ECO2 A02- Professional Competency Course	4*	35
III	ECO3 C09 International Trade	5	35
	ECO3 C10 Growth and Development	5	35
	ECO3 C11 Basic Econometrics	5	35
	Elective I	4	35
IV	ECO4 C12 International Finance	3	35
	ECO4 C13 Financial Markets	3	35
	Elective II	4	35
	Elective III	4	35
	ECO4 P14 Project	4	5
	ECO4 V15 Comprehensive Viva Voce	4	
	Total Credits	80	



MA ENGLISH

Semester	Course	Credits	Weightage
I	ENG1CO1 British Literature from Chaucer to 18 th century	5	30
	ENG1CO2 British Literature 19 th century	5	30
	ENG1CO3 History of English Language	5	30
	ENG1CO4 Indian Literature in English	5	30
	Total Credits	20	
	AEC (Ability Enhancement Course) ENG1 A01 Writing Skills		
II	ENG2 CO5 Twentieth century British Literature up to 1940	5	30
	ENG2 CO6 Literary Criticism and Theory - Part 1(up to New Criticism)	5	30
	ENG2 CO7 American Literature	5	30
	ENG2 CO8 Postcolonial writings	5	30
	Total Credits	20	
	PCC(Professional Competency Course) ENG2 A02 Translation Theory and Practice		
III	ENG3 CO9 Twentieth century British Literature post 1940	5	30
	ENG3C10 Literary criticism and theory - Part 2	5	30
	ENG3 E06 Teaching English (Elective 1)	5	30
	ENG3 E07 World Drama (Elective 2)	5	30
	Total	20	
IV	ENG4 C11 English Literature in the 21 st Century	4	30
	ENG4 C12 Dissertation / Project	4	
	ENG4 C13 Comprehensive viva-voce	4	
	ENG4 E12 Literature and Ecology (Elective 1)		
	ENG4 E18 Malayalam Literature in English Translation (Elective 2)		
	Total Credits		
	Grand total Credits	80	



M.Sc. MATHEMATICS

Semester	Course	Credits	Weightage
I	Algebra- I	4	30
	Linear Algebra	4	30
	Real Analysis I	4	30
	Discrete Mathematics	4	30
	Number Theory	4	30
	Ability Enhancement Course ^a	4	
II	Algebra- II	4	30
	Real Analysis II	4	30
	Topology	4	30
	ODE & calculus of variations	4	30
	Operations Research	4	30
	Professional Competency Course ^a	4	
III	Multivariable Calculus & Geometry	4	30
	Complex Analysis	4	30
	Functional Analysis	4	30
	PDE & Integral Equations	4	30
	Elective I [*]	3	30
IV	Advanced Functional Analysis	4	30
	Elective II ^{**}	3	30
	Elective III ^{**}	3	30
	Elective IV ^{**}	3	30
	Project	4	
	Viva Voce	4	



M.Sc. PHYSICS

Semester	Course	Credit	Weightage
I	Classical Mechanics	4	30
	Mathematical Physics – I	4	30
	Electrodynamics and Plasma Physics	4	30
	Electronics	4	30
	General Physics Practical -I *		30
	Electronics Practical – I**		
	Ability Enhancement Course	4	
II	Quantum Mechanics –I	4	30
	Mathematical Physics – II	4	30
	Statistical Mechanics	4	30
	Computational Physics	4	30
	General Physics Practical - II *	3	
	Electronics Practical – II **	3	
	Professional Competency Course	4	
III	Quantum Mechanics - II	4	30
	Nuclear and Particle Physics	4	30
	Solid State Physics	4	30
	Experimental Techniques	4	30
	Project #		
	Modern Physics Practical – I ##		
IV	Atomic and Molecular Spectroscopy	4	30
	Laser Systems, Optical Fibres and Applications	4	30
	Microprocessors, Microcontrollers and Applications	4	30
	Project #	4	
	Modern Physics Practical –II ##	3	
	Computational Physics Practical	3	
	Viva Voce (Comprehensive)	4	



M.Sc. STATISTICS

Semester	Course	Credits	Weightage
I	Analytical Tools for Statistics – I	4	30
	Analytical Tools for Statistics – II	4	30
	Distribution Theory	4	30
	Probability Theory	4	30
	Statistical Computing – 1	4	30
II	Design and Analysis of Experiments	4	30
	Estimation Theory	4	30
	Sampling Theory	4	30
	Testing of Statistical Hypotheses	4	30
	Statistical Computing-II	4	30
III	Applied Regression Analysis	4	30
	Stochastic Processes	4	30
	Statistical Quality Control	4	30
	Lifetime Data Analysis	4	30
	Statistical Computing-III	4	30
IV	Multivariate Analysis	4	30
	Time Series Analysis	4	30
	Comprehensive Viva-Voce	8(5+3)	30
	Statistical Computing-IV	4	30
Total		80	
	Ability Enhancement Course	4	
	Professional Competency Course	4	



M.Sc. ZOOLOGY

Semester	Course	Credits	Weightage
I	ZOL1C01- Biochemistry and Cytogenetics	4	35
	ZOL1C02- Biophysics and Biostatistics	4	35
	ZOL1C03- Ecology and Ethology	4	35
	ZOL2L01- Biochemistry, Biophysics and Biostatistics	4	40
II	ZOL2C04- Physiology	4	35
	ZOL2C05- Molecular Biology	4	35
	ZOL2C06- Systematics and Evolution	4	35
	ZOL2L02- Physiology, Molecular Biology and Cytogenetics	4	40
	ZOL2L03- Ecology, Ethology, Systematics and Evolution	4	40
III	ZOL3C07-Immunology	4	35
	ZOL3C08- Developmental Biology and Endocrinology	4	35
	ZOL3E09- Entomology 1: Morphology and Taxonomy	4	35
IV\	ZOL4C10- Biotechnology and Microbiology	4	35
	ZOL4E11- Entomology II: Anatomy and Physiology	4	35
	ZOL4E12- Entomology III: Agricultural, Medical & Forensic Entomology	4	35
	ZOL4L04-Immunology, Developmental Biology, Endocrinology, Biotechnology, Microbiology & Microtechnique	4	40
	ZOL4L05- Entomology 1 & II	4	40
	ZOL4L06- Entomology III	4	40
	ZOL4P07- Project Work	4	40
	ZOL4V08- Viva Voce (Project-2 + General-2)	4	40
Total		80	
	Audit course: Academic Writing /Scientific Writing	4	
	Professional Competency Course: Introduction to Bioinformatic softwares/Introduction to Statistical Software	4	



M.Sc. ELECTRONICS

Semester	Course	Credits	Weightage
I	Core:ELS1C01 Applied Mathematics	4	30
	Core: ELS1C02 Microcontroller Based System Design	4	30
	Core:ELS1C03 Modern Digital and Optical Communication	4	30
	Core:ELS1C04 Advanced Digital System Design	4	30
	Practical:ELS1L01 Application Based Programming in Embedded C & Python	4	30
	Audit:ELS1A01 Introduction to PYTHON Programming	4	
II	Core:ELS2C05 High Performance Communication Networks	4	30
	Core:ELS2C06 Wireless Communication	4	30
	Core:ELS2C07 Design of Embedded Systems	4	30
	Core:ELS2C08 Advanced Microcontrollers	4	30
	Practical:ELS2L02 Embedded Systems Lab	4	30
	Audit:ELS2A02 Paper Writing and Seminar	4	
III	Core:ELS3C09 Soft Computing and Optimization Techniques	4	30
	Core: ELS3C10 Advanced Digital Signal Processing	4	30
	Core: ELS3C11 Internet of Things	4	30
	Elective:ELS3E01 Elective 1	4	30
	Practical: ELS3L03 Communication and DSP Lab	4	30
IV	Robotics	4	35
	Elective 2	4	30
	Elective 3	4	35
	Project	6	
	Viva Voce	2	



MSW

Semester	Course	Credits	Weightage
I	History, Philosophy and Fields of Social Work	4	
	Sociology and Economics for Social Work Practice	4	
	Human Growth and Development	4	
	Professional Skills for Social Workers	4	
	Social Legislation and Human Rights	4	
	Concurrent Fieldwork	4	
	Working with Older Persons	4	
II	Social Casework	4	
	Social Group work	4	
	Community organization and Social Action	4	
	Psychology for Social Work	4	
	Theory and Practice of Counselling	4	
	Concurrent Fieldwork	3	
	Child Protection	4	
III	Quantitative and Qualitative Methods for Social Work Research	4	
	Participatory Project Planning and Training	4	
	Community Health	4	
	Health Care Social Work or Rural Community Development and Governance	4	
	Social Work in Mental Health Settings Or Urban Community Development and Governance	4	
	Concurrent Fieldwork	4	
IV	Administration of Human Service Organisations	4	
	Social Work with Vulnerable Groups	4	
	Therapeutic Approaches in Medical and Psychiatric Settings or Environmental Studies and Disaster Management	4	
	Social Work Practice with Families or Social Work with Gender Issues	4	
	Concurrent Fieldwork	4	
	Block Field work	4	
	Dissertation	4	
	Comprehensive Viva-voce (Theory)	4	
	Grand Total	110	



MA VISUAL COMMUNICATION

Semester	Course	Credits	Weightage
I	Visual Culture and Communication	4	100
	Film Appreciation	4	100
	Photography	4	100
	Scripting for Visual Media	4	100
	Digital Video Production	4	100
	Internship	4	100
II	Cinematography	4	100
	Introduction to Sound Design	4	100
	Introduction to Visual Editing	4	100
	Image and Representation	4	100
	Visual Communication Practical I	2	50
	Design Industry Convergence	4	
III	Visual Media Research	4	100
	Advanced Visual Editing	4	100
	Advanced Studies in Sound Design	4	100
	Media Management	4	100
	New Media Technologies	4	100
	Film Studies	4	100
IV	Television Production	4	100
	Visual Communication Practical II	2	50
	Multimedia	4	100
	Advertising in Visual Media	4	100
	Documentary Film Production	4	100
	Project Work/Dissertation and Comprehensive Viva-voce.	8	100
	Grand Total	86	



B.Sc. BOTANY

Semester	Course	Credit	Mark
I	Common course: English	4	100
	Common course: English	3	100
	Common course: Additional Language	4	100
	Core Course 1: Angiosperm Anatomy, Reproductive Botany & Palynology	3	75
	Complementary course: Chemistry	2	75
	Complementary course: Zoology	2	75
	Total credits acquired in the semester	18	
II	Common course: English	4	100
	Common course: English	3	100
	Common course: Additional Language	4	100
	Core Course 2: Microbiology, Mycology, Lichenology & Plant Pathology	3	75
	Complementary course: Chemistry	2	75
	Complementary course: Zoology	2	75
	Total credits acquired in the semester	18	
III	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course 3: Phycology, Bryology & Pteridology	3	75
	Complementary course: Chemistry	2	75
	Complementary course: Zoology	2	75
	Total credits acquired in the semester	15	
IV	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course 4: Methodology and Perspectives in Plant Science	3	75
	Core Course 5: Practical of Sem 1- 4 (Paper- I)	4	100
	Complementary course: Chemistry	2	75
	Complementary course: Chemistry Practical	4	100
	Complementary course: Zoology	2	75
	Complementary course: Zoology Practical	4	100
	Total credits acquired in the semester	27	
V	Core Course 6: Gymnosperms, Palaeobotany, Phytogeo. & Evolution	3	75
	Core Course 7: Angiosperm Morphology & Systematics	3	75
	Core Course 8: Tissue Culture, Horticulture, Economic Bot & Ethnobotany	3	75
	Core Course 9: Cell Biology & Biochemistry	3	75
	Open Course	3	75
	Total credits acquired in the semester	15	
VI	Core Course 10: Genetics & Plant Breeding	3	75
	Core Course 11: Biotechnology, Molecular Biology & Bioinformatics	3	75
	Core Course 12: Plant Physiology & Metabolism	3	75
	Core Course 13: Environmental Science	3	75
	Core Course 14: Elective	3	75



	Core Course 15: Practical of Sem 5 (Paper- II)	5	110
	Core Course 16: Practical of Sem 6 (Paper- III)	5	100
	Core Course 17: Project Work/ Research methodology paper	2	75
	Total credits acquired in the semester	27	
	Total credits acquired in all semesters	120	
	Audit Courses (Sem 1, II, III & IV)	16	
	Extra Credits	4	
	Grant Total	140	

B.Sc. CHEMISTRY

Semester	Course	Credit	Mark
I	Common course: English	4	100
	Common course: English	3	75
	Common course: Additional Language	4	100
	Core Course I: Theoretical and Inorganic Chemistry- I	2	75
	Complementary course: Mathematics	3	75
	Complementary course: Physics	2	75
	Total	18	500
II	Common course: English	4	100
	Common course: English	3	75
	Common course: Additional Language	4	100
	Core Course II: Theoretical and Inorganic Chemistry- II	2	75
	Complementary course: Mathematics	3	75
	Complementary course: Physics	2	75
	Total	18	500
III	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course III: Physical Chemistry-I	3	75
	Complementary course: Mathematics	3	75
	Complementary course: Physics	2	75
	Total	16	425
IV	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course IV: Organic Chemistry-I	3	75
	Core Course V: Inorganic Chemistry Practical-I	4	100
	Complementary course: Mathematics	3	75
	Complementary course: Physics	2	75
	Complementary course: Physics Practical	4	100
	Total	24	625
V	Core Course VI: Inorganic Chemistry-III	3	75
	Core Course VII: Organic Chemistry-II	3	75
	Core Course VIII: Physical Chemistry-II	3	75
	Open course	3	75
	Total	12	300
	Core Course IX: Inorganic Chemistry-IV	3	75



VI	Core Course X: Organic Chemistry-III	3	75
	Core Course XI: Physical Chemistry-III	3	75
	Core Course XII: Advanced and Applied Chemistry	3	75
	Core Course XIII: Elective	2	75
	Core Course XIV: Physical Chemistry Practical	4	100
	Core Course XV: Organic Chemistry Practical	4	100
	Core Course XVI: Inorganic Chemistry Practical-II	4	100
	Core Course XVII: Inorganic Chemistry Practical-III	4	100
	Core Course XVIII: Project Work	2	75
	Total	32	850

B.Com.

Semester	Course	Credits	Marks
I	BCM1A01(English)	3	75
	BCM1A02 (English)	3	75
	BCM1A07 (Language)	4	100
	BCM1B01 Business Management	4	100
	BCM1C01 Managerial Economics	4	100
	Total	18	450
II	BCM2A03 (English)	4	100
	BCM2A04 (English)	4	100
	BCM2A08 (Language)	4	100
	BCM2B02 Financial Accounting	4	100
	BCM2C02 Marketing Management	4	100
	Total	20	500
III	BCM3A11 Basic Numerical Methods	4	100
	BCM3A12 Professional Business Skills	4	100
	BCM3B03 Business Regulations	4	100
	BCM3B04 Corporate Accounting	4	100
	BCM3C03 Human Resources Management	4	100
	Total	20	500
IV	BCM4A13 Entrepreneurship Development	4	100
	BCM4A14 Banking and Insurance	4	100
	BCM4B05 Cost Accounting	4	100
	BCM4B06 Corporate Regulations	4	100
	BCM4C04 Quantitative Techniques for Business	4	100
	Total	20	500
V	BCM5B07 Accounting for Management	4	100
	BCM5B08 Business Research Methods	4	100
	BCM5B09 Income Tax Law and Accounts	4	100
	BCM5B10 Course in Specialisation	4	100
	BCM5B11 Course in Specialisation	4	100



	BCM5D01 Open Course (For students from other Departments)	3	75
	Total	23	575
VI	BCM6B12 Income Tax and GST	4	100
	BCM6B13 Auditing and Corporate Governance	4	100
	BCM6B14 Course in Specialisation	4	100
	BCM6B15 Course in Specialisation	5	100
	BCM6B16(PR)Three Weeks Project and Viva-Voce	2	75
	Total	19	475

B.Sc. COMPUTER SCIENCE

Semester	Course	Credit	Mark
I	Common English	3	75
	Common English	3	75
	Languages other than English	4	100
	Computer Fundamentals & HTML	3	75
	Complementary Mathematics I	3	75
	Optional Complementary I	3	75
	Total	19	475
II	Common English	4	100
	Common English	4	100
	Literature in Languages other than English	4	100
	Problem Solving using C	3	75
	Programming Laboratory I: HTML and Programming in C	4	100
	Complementary Mathematics II	3	75
	Optional Complementary II	3	75
Total	25	625	
III	Python Programming	4	100
	Data Communication and Optical Fibres	4	100
	Data Structures using C	3	75
	Complementary Mathematics III	3	75
	Optional Complementary III	3	75
	Total	17	425
IV	Microprocessors Architecture and Programming	4	100
	Sensors and Transducers	4	100
	Database Management System and RDBMS	3	75
	Programming Laboratory II: Data Structures and RDBMS	4	100
	Complementary Mathematics IV	3	75
	Optional Complementary IV	3	75
	Total	21	525
V	Computer Organization and Architecture	3	75
	Java Programming	3	75
	Web Programming Using PHP	3	75
	Principles of Software Engineering	3	75
	Open Course	3	75



	Project Work	0	0
	Total	15	375
VI	Android Programming	3	75
	Operating Systems	3	75
	Computer Networks	3	75
	Programming Laboratory III: Java and PHP Programming	4	100
	Programming Laboratory IV: Android and Linux shell Programming	4	100
	Elective Course	3	75
	Industrial Visit & Project Work (Industrial Visit- 1 Credit, Project Work- 2 Credit)	3	100
	Total	23	600

BA ECONOMICS

Semester	Course	Credit	Mark
I	Common English Course I	3	100
	Common English Course II	3	100
	Additional Language Course I	4	100
	Microeconomics I	5	100
	Complementary (Type 1-Course I)	4	100
	Environment Studies	4	100
	Total	23	600
II	Common English Course III	4	100
	Common English Course IV	4	100
	Additional Language Course II	4	100
	Macroeconomics I	5	100
	Complementary (Type 2-Course I)	4	100
	Disaster Management	4	100
	Total	25	600
III	Common English Course V	4	100
	Additional Language Course III	4	100
	Quantitative Methods for Economic Analysis I	4	100
	Microeconomics II	4	100
	Complementary (Type 2-Course 2)	4	100
	Human Rights/Intellectual Property Rights/ Consumer Protection	4	100
	Total	24	600
IV	Common English Course VI	4	100
	Additional Language Course IV	4	100
	Quantitative Methods for Economic Analysis II	4	100
	Macroeconomics II	4	100
	Complementary (Type 1-Course 2)	4	100
	Gender Studies/Gerontology	4	100
	Total	24	600
	Fiscal Economics	4	100
	Indian Economic Development	4	100



V	Economics of Capital Market	4	100
	Mathematical Economics	4	100
	Open course	3	75
	Total	19	475
VI	Financial Economics	4	100
	International Economics	4	100
	Development of Economic Thought	4	100
	Economics of Growth and Development	4	100
	Elective: Basic Econometrics / Behavioral Economics / Urban economics	3	75
	Project work/Research Methodology	2	50
	Total	21	525

BA ENGLISH & HISTORY

Semester	Course	Credit	Mark
I	Common English Course I	3	100
	Common English Course II	3	100
	Additional Language Course I	4	100
	Introducing literature		
	Total	23	
II	Common English Course III	4	100
	Common English Course IV	4	100
	Additional Language Course II	4	100
	Appreciating Poetry	4	
	Total	25	
III	Common English Course V	4	100
	Additional Language Course III	4	100
	Appreciating Prose	4	
	English grammar and usage		
	Total	24	
IV	Common English Course VI	4	100
	Additional Language Course IV	4	100
	Appreciating fiction	4	
	Literary criticism	4	
	Total	24	
	Appreciating drama and theatre	4	



V	Literary theory	4	
	Language and linguistics	4	
	Indian writing in English	4	
	Open course	3	75
	Total	19	
VI	Indian writing in English	4	
	Voices of women	4	
	Classics of world literature	4	
	Film studies	4	
	New literatures in English	4	
	Electives	3	
	Project	2	
	Total	21	

B.Sc. MATHEMATICS

Semester	Course	Credit	Mark
I	Common English Course I	3	100
	Common English Course II	3	100
	Additional Language Course I	4	100
	Basic Logic and Number Theory	4	100
	Total	23	400
II	Common English Course III	4	100
	Common English Course IV	4	100
	Additional Language Course II	4	100
	Calculus of Single variable-1	4	100
	Complementary	3	75
	Total	25	475
III	Common English Course V	4	100
	Additional Language Course III	4	100
	Calculus of Single variable-2	4	100
	Complementary	3	75
	Total	24	
IV	Common English Course VI	4	100
	Additional Language Course IV	4	100
	Linear Algebra	4	100
	Complementary	4	100
		3	75
	Total	24	
	Theory of Equations and Abstract Algebra	4	100
	Basic Analysis	4	100



V	Numerical Analysis	3	75
	Linear Programming	3	75
	Introduction to Geometry	3	75
	Project		
	Open course	3	75
	Total		
VI	Real Analysis	5	100
	Complex Analysis	5	100
	Calculus of Multi variable	4	100
	Differential Equations	4	100
	Elective	2	75
	Project Viva	2	75
	Total	22	550

B.Sc. PHYSICS

Semester	Course	Credits	Mark
I	Common Course I – English	4	100
	Common Course II – English	4	75
	Common Course III – Language other than English	3	100
	Core course I - Methodology of Science and Basic Mechanics	2	75
	1 st Complementary Course I - Mathematics	3	75
	2 nd Complementary Course I	2	75
	Total	18	500
II	Common Course IV – English	4	100
	Common Course V – English	3	75
	Common Course VI – Language other than English	4	100
	Core Course II - Mechanics	2	75
	1 st Complementary Course II - Mathematics	3	75
	2 nd Complementary Course II	2	75
	Total	18	500
III	Common Course VII – English	4	100
	Common Course VIII - Language other than English	4	100
	Core Course III – Electrodynamics-I	3	75
	1 st Complementary Course III – Mathematics	3	75
	2 nd Complementary Course III	2	75
	Total	16	425
IV	Common Course IX – English	4	100
	Common Course X - Language other than English	4	100
	Core Course IV - Electrodynamics II	3	75
	Core Course Practical V – Practical I	5	100
	1 st Complementary Course IV– Mathematics	3	75
	2 nd Complementary Course IV	2	75
	2 nd Complementary Course Practical IV	4	100
	Total	25	625
	Core Course VI - Computational Physics	3	75



V	Core Course VII - Quantum Mechanics	3	75
	Core Course VIII - Optics	3	75
	Core Course IX- Electronics (Analog and Digital)	3	75
	Open Course – (<i>course from other streams</i>)	3	75
	Total	15	375
VI	Core Course X - Thermodynamics	3	75
	Core Course XI -Statistical Physics, Solid State Physics, Spectroscopy and Photonics	3	75
	Core Course XII - Nuclear Physics and Particle Physics	3	75
	Core Course XIII - Relativistic Mechanics and Astrophysics	3	75
	Core Course XIV (Elective:EL1 / EL2 / EL3)	3	75
	Core Course Practical XV – Practical II	5	100
	Core Course Practical XVI – Practical III	5	100
	Core Course XVII Project/Research methodology	2	60
Tour report	1	15	
Total	120	3075	

B.Sc. STATISTICS

Semester	Course	Credit	Mark
I	Official statistics and probability	4	100
	Introductory statistics	3	75
II	Bivariate random variables and probability distributions	4	100
	Probability Theory	3	75
III	Statistical estimation	4	100
	Probability distributions and sampling theory	3	75
IV	Testing of hypothesis	4	100
	Statistical inference and quality control	3	75
V	Mathematical methods in statistics	4	100
	Sample surveys	5	100
	Linear regression analysis	4	100
	Statistical computing	5	100
	Economic statistics quality control basic statistics	3	100
	Project work	--	
VI	Time series and index numbers	4	100
	Design of experiments	5	100
	Population studies, actuarial science and vital statistics	4	100
	Operations research and statistical quality Control	4	100
	Project work	2	
	Probability models and risk theory	2	
	Stochastic processes reliability theory		



B.Sc. ZOOLOGY

Semesters	Course	Credits	Mark
I	Common course: English	3	75
	Common course: English	3	75
	Common course: Additional Language	4	100
	Core Course I: Animal Diversity: Non-chordata Part-I	2	75
	Complementary course: Chemistry	2	75
	Complementary course: Botany	2	75
	Audit Course: Environmental studies	4	100
	Total	20	575
II	Common course: English	4	100
	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course II: Animal Diversity: Non-chordata Part-II	2	75
	Complementary course: Chemistry	2	75
	Complementary course: Botany	2	75
	Audit Course: Disaster Management	4	100
	Total	22	625
III	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course III: Animal Diversity: Chordata Part-I	3	75
	Complementary course: Chemistry	2	75
	Complementary course: Botany	2	75
	Audit Course: Human Rights/Intellectual Property Rights/ Consumer Protection	4	100
	Total	19	525
IV	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course IV: Animal Diversity: Chordata Part-II	3	75
	Core Course V: Zoology Core Practical I	4	100
	Complementary course: Chemistry	2	75
	Complementary course: Chemistry Practical	4	100
	Complementary course: Botany	2	75
	Complementary course: Botany Practical	4	100
	Audit Course: Gender studies/Gerontology	4	100
	Extra credits (Maximum)	4	100
	Total	35	925
V	Core Course VI: Cell Biology and Genetics	4	100
	Core Course VII: Biotechnology, Microbiology and Immunology	4	100
	Core Course VIII: Biochemistry and Molecular Biology	4	100
	Core Course IX: Methodology in Science, Biostatistics and Bioinformatics	4	100
	Open course	3	75
	Total	19	475
	Core Course X: Physiology and Endocrinology	3	75
	Core Course XI: Reproductive and Developmental Biology	3	75
	Core Course XII: Environmental and Conservation Biology	3	75



VI	Core Course XIII: Ethology, Evolution and Zoogeography	3	75
	Core Course XIV: (Elective course): [01]Applied Entomology	2	75
	Core Course XV: Zoology Core Practical II	4	100
	Core Course XVI: Zoology Core Practical III	4	100
	Core Course XVII: Project Work &Field study	3	75
	Total	25	650
	Grand Total	140	3775

BBA

Semester	Course	Credits	Mark
I	BBA1A01 English	3	75
	BBA 1A02 English	3	75
	BBA1A07 Language other than English	4	100
	BBA1B01 Management Theory and Practices	4	100
	BBA1C01 Managerial Economics	4	100
	Total	18	450
II	BBA2A03 English	4	100
	BBA2A04 English	4	100
	BBA2A08 Language Other than English	4	100
	BBA2B02 Financial Accounting	4	100
	BBA2B03 Marketing	4	100
Total		20	500
III	BBA3A11 Basic Numerical Methods	4	100
	BBA3A12 Professional Business Skills	4	100
	BBA3B04 Corporate Accounting	4	100
	BBA3B05 Financial Management	4	100
	BBA3C02 Business Regulations	4	100
Total		20	500
IV	BBA4A13 Entrepreneurship Development	4	100
	BBA4A14 Banking and Insurance	4	100
	BBA4B06 Cost & Management Accounting	4	100
	BBA4C03 Corporate Regulations	4	100
	BBA4C04 Quantitative Techniques for Business	4	100
Total		20	500
V	BBA5B07 Human resources Management	4	00
	BBA5B08 Business Research Methods	3	75
	BBA5B09 Operations Management	4	100
	BBA5B10 Elective 1	4	100
	BBA5B11 Elective 2	4	100
	BBA5D01 Open Course	3	75
Total		22	550
VI	BBA6B12 Organisational Behaviour	4	100
	BBA6B13 Management Science	4	100
	BBA6B14.Project Management	2	75
	BBA6B15 Elective 3	4	100
	BBA6B16 Elective 4	4	100



	BBA6B17 (PR) Three Weeks Project and Viva- Voce	2	75
	Total	20	550

BCA

Semester	Course	Credits	Mark
I	Common English	3	75
	Common English	3	75
	Languages other than English	4	100
	Computer Fundamentals & HTML	3	75
	Mathematical Foundation for Computer Applications	3	75
	Discrete Mathematics	3	75
	Total	19	475
II	Common English	4	100
	Common English	4	100
	Literature in Languages other than English	4	100
	Problem Solving using C	3	75
	Programming Laboratory I: HTML and Programming in C	4	100
	Financial and Management Accounting	3	75
	Operations Research	3	75
	Total	25	625
III	Python Programming	4	100
	Sensors and Transducers	4	100
	Data Structures using C	3	75
	Computer Oriented Numerical and Statistical Methods	3	75
	Theory of Computation	3	75
	Total	17	425
IV	Data communication and optical fibres	4	100
	Microprocessors Architecture and Programming	4	100
	Database Management System and RDBMS	3	75
	Programming Laboratory II: Data Structures and RDBMS	4	100
	E-Commerce	3	75
	Computer Graphics	3	75
	Total	21	525
V	Computer Organization and Architecture	3	75
	Java Programming	3	75
	Web Programming Using PHP	3	75
	Principles of Software Engineering	3	75
	Open Course	3	75
	Industrial Visit	3	
	Project Work		
	Total	15	375
VI	Android Programming	3	75
	Operating Systems	3	75
	Computer Networks	3	75
	Programming Laboratory III: Java and PHP Programming	4	100



	Programming Laboratory IV: Android and Linux shell Programming	4	100
	Elective Course	3	75
	Industrial Visit & Project Work	3	100
	Total	23	600

B.Sc. ELECTRONICS

Semester	Course	Credits	Mark
I	Common Course 1 English course I	4	100
	Common Course 2 English course II	3	75
	Common Course 3 Additional Language course I	4	100
	Core Course 1 Basic Electronics and Network Theorems	2	75
	1 st Complimentary Course 1 Mathematics – I	3	
	2 nd Complimentary Course 1 Optional – 1	2	
II	Common Course 4 English Course III	4	100
	Common Course 5 English Course IV	3	100
	Common Course 6 Additional Language course III	4	
	Core Course 2 Electronic Circuits	2	75
	Core Lab 1 (Exam) Basic Electronics and Network Theorems Lab	2	75
	Core Lab 2 (Exam) Electronic Circuits Lab	2	75
	1 st Complimentary Course 2 Mathematics -II	3	
	2 nd Complimentary Course 2 Optional - 2	2	
III	General Course-I Python programming	4	100
	General Course-II Sensors and Transducers	4	100
	Core Course 3 Digital Electronics	3	75
	Core Lab 5 Skill Development Lab (I)	-	75
	1 st Complimentary Course 3 Mathematics –III	3	
	2 nd Complimentary Course 3 Optional -3	2	
IV	General Course –II Data Communication & Optical Fibers	4	100
	General Course –IV Microprocessors –Architecture and Programming	4	100
	Core Course 4 Analog Integrated Circuits	3	75
	Core Lab 3 Digital Electronics Lab	2	75
	Core Lab 4 Analog Integrated Circuits Lab	2	75
	Core Lab 5 / Skill Development Lab (II)	1	75
	1 st Complimentary Course 4 Mathematics-IV	3	
	2 nd Complimentary Course 4 Optional- 4	2	
	2 nd Complimentary Course practical Optional- practical	4	
V	Core Course 5 Electromagnetic Theory	4	100
	Core Course 6 Microcontroller & Interfacing	4	75
	Core Course 7 Network Theory	4	100
	Open Course (Choose a Course from the List) Computer Hardware / Digital Fundamentals / Electronics Fundamentals	3	75
	Core Lab 6 Microprocessor & Microcontroller programming and interfacing Lab	-	75
	Core Lab 9 Industrial Visit & Project Work	-	75
	Core Course 8 Communication System	4	100



VI	Core Course 9 Principles of DSP	4	100
	Core Course 10 Microwave Theory and Techniques	4	100
	Core Course (Elective) -Optical Communication / Industrial Electronics / Control Systems / Verilog & FPGA Based System Design	3	75
	Core Lab 6 Microprocessor & Microcontroller programming and interfacing Lab (8085,raspberry pi,8051and Arduino)		75
	Core Lab 7 Communication system Lab		75
	Core Lab 8 Principles of DSP Lab		75
	Core Lab 9 Industrial Visit, Project Work, Viva Voce		75

BA MULTIMEDIA

Semester	Course	Credit	Marks
I	Common course: English	3	75
	Common course: English	3	75
	Common course: Additional Language	4	100
	Core Course 1: Introduction to Digital Media	4	100
	Complementary course 1: Introduction to Mass Media	3	75
	Complementary course 2: Introduction to Audio Visual Media	3	75
	Total	20	500
II	Common course: English	4	100
	Common course: English	4	100
	Common course: Additional Language	4	100
	Core Course 2: Creativity and Design Skills	4	100
	Complementary course 3: Newspaper Journalism	3	75
	Complementary course 4: Introduction to Cinema	3	75
	Total	22	550
III	General Course 1: A 11-Basic Mathematics for Media Arts	4	100
	General Course 2: A 12-General Informatics & Instrumentation	4	100
	Core Course 3: Media Publishing	2	75
	Core Course 4: Computer Graphics	2	75
	Core Course 5: Digital Photography	2	75
	Core Course 6: Media Publishing & Computer Graphics (Practical)	2	75
	Core Course 7: Digital Photography (Practical)	2	75
	Complementary course 5: Television Journalism	3	75
	Complementary course 6: Scripting and Story Boarding	3	75
	Total	24	725
IV	General Course 3- A 13-Media Management	4	100
	General Course 4-A 14-Evolution of Media Technology	4	100
	Core Course 8: Introduction to Cinematography	2	75
	Core Course 9: Fundamentals of Web Designing	2	75
	Core Course 10: Introduction to Cinematography (Practical)	2	75
	Core Course 11: Fundamentals of Web Designing (Practical)	2	75
	Complementary course 7: Digital Journalism	3	75
	Complementary course 8: Radio Production	3	75
	Total	22	650
	Core Course 12: Techniques of Post Production – Visual Editing	3	75



V	Core Course 13: Techniques of Post Production –Sound Recording, Editing and Mastering	2	75
	Core Course 14: Introduction to 3D Modeling and Texturing	2	75
	Core Course 15: Advanced Web Designing	2	75
	Core Course 16: Techniques of Post Production – Visual Editing & Techniques of Post Production –Sound Recording, Editing and Mastering (Practical)	2	75
	Core Course 17: Introduction to 3D Modeling and Texturing & Advanced Web Designing (Practical)	2	75
	Open Course 1: Fundamentals of Multimedia	3	75
	Total	16	525
VI	Core Course 18: Advanced 3D Animation, Vfx and Compositing	3	75
	Core Course 19: Introduction to Motion Graphics	3	75
	Core Course 20: Television & Multi Camera Production (Elective)	2	75
	Core Course 21: Multimedia Designing & Authoring (Elective)		
	Core Course 22: Advanced 3D Animation, Vfx and Compositing	2	75
	Core Course 23: Introduction to Motion Graphics	2	75
	Core Course 24: Multimedia Project	2	75
	Core Course 25: Web Site Project	2	75
Total	16	525	

BA VISUAL COMMUNICATION

Semester	Course	Marks	Credits
I	English	75	3
	English	75	3
	Language other than English	100	4
	Vision and Communication	100	4
	Introduction to Mass Media	75	3
	Introduction to Multimedia	75	3
	Total	500	20
II	Common English Course III	100	4
	Common English Course IV	100	4
	Additional Language Course II	100	4
	Basic Photography	100	4
	Newspaper Journalism	75	3
	E-Content Development	75	3
	Total	550	22
III	Basic Mathematics for Media Arts	100	4
	General Informatics & Instrumentation	100	4
	Theory of Visual Design	100	4
	History and Theory of Art	100	4
	Television Journalism	75	3
	Computer Graphics	75	3
	Total	550	22
	Media Management	100	4



IV	Evolution of Media Technology	100	4
	Fundamentals of Cinematography	100	4
	Practical I :Photography, Cinematography, etc.	100	4
	Digital Journalism	75	3
	Web Design	75	3
	Total	550	22
V	Screen Writing	75	2
	Visual Editing	75	3
	Media Design-I	75	2
	Advertising	100	4
	Audiography	75	3
	Open Course	75	3
	Total	475	17
VI	Media Design-II (Animation and Visual Effects)	75	3
	Design Industry Convergence	100	4
	Practical II Visual Editing Media Design(2D and 3D) Audiography	100	4
	Design Industry Convergence		
	New Media	100	4
	Radio Production	100	4
	Project Work	100	2
	Total	475	17

BA CRIMINOLOGY & POLICE SCIENCE

Semester	Course	Mark	Credits
I	Common English Course I	100	3
	Common English Course II	75	3
	Additional language Course I	100	4
	Core course – 1	100	5
	Complementary – 1	75	2
	Complementary – 2	75	2
	Audit Course-1	100	3
II	Common English Course III	100	4
	Common English Course IV	100	4
	Additional language Course II	100	4
	Core course – 2	100	5
	Complementary – 1	75	2
	Complementary – 2	75	2
	Audit Course-2	100	3
III	Common English Course V	100	4
	Additional language Course III	100	4
	Core course - 3	100	4
	Core course - 4	100	4
	Complementary - 1	75	2
	Complementary - 2	75	2
	Audit Course-3	100	3



IV	Common English Course VI	100	4
	Additional language Course IV	100	4
	Core course - 5	100	4
	Core course -6	100	4
	Complementary - 1	75	2
	Complementary - 2	75	2
	Audit course-4	100	3
V	Core course - 7	100	4
	Core course -8	100	4
	Core course - 9	100	4
	Core course -10	100	4
	Open course	75	2
	Project**		
VI	Core course - 11	100	4
	Core course -12	100	4
	Core course - 13	100	4
	Core course -14	100	4
	Elective course	100	4
	Project		2**

B.Voc. DATA SCIENCE

Semester	Course	Credits	Marks
I	Transactions Essential English Language Skills A01	4	100
	Malayalam Bhashayum Sahithyavum I MAL1A01 (2)	4	100
	Prose and One Act Plays A07 (3)		
	Mathematics for Data Science I	4	100
	Programming in C	4	100
	Fundamentals of Statistical data analysis	5	100
	Programming in C – Lab	4	100
	Statistical Data Analysis Using MS Excel – Lab	5	100
II	Ways with Words A02	4	100
	Malayalam Bhashayum Sahithyavum II Poetry and Short Stories A09	4	100
	Mathematics for Data Science II	4	100
	Introduction to RDBMS and SQL	4	100
	Probability & Random variables	5	100
	SQL – Lab	5	100
	Mini Project	4	100
III	Writing for Academic and Professional Success A03	4	100
	Mathematics for Data Science III	4	100
	Optimization techniques	4	100
	Probability Distributions	4	100
	Python Programming	5	100
	Python – Lab	4	100
	Statistical Data Analysis Using SPSS – Lab	5	100
	Zeitgeist: Readings on Society and Cultures A04	4	100
	Statistical simulation techniques	4	100



IV	Artificial Intelligence	4	100
	Statistical inference	4	100
	Applied Multivariate Techniques	5	100
	R Programming – Lab	5	100
	Mini Project	4	100
V	Data Science - Industrial perspective	4	100
	Data mining Techniques	4	100
	Design of experiments	4	100
	Categorical data Analysis	4	100
	Stochastic Modeling	5	100
	Machine Learning and Data Analytics	4	100
	Statistical Data Analysis Using SAS – Lab	5	100
VI	Internship and Project (900hrs)	30	100

B.Voc. FORENSIC SCIENCE

I	Transactions Essentials English language and Skills. – ENG1A01	3	75
	Ways with Words – ENG1A02	3	75
	Malayalam- Bhashayum sahithyavum I – MAL1A07(3)	4	100
	Prose and one Act Plays – HIN1A07(3)		
	General Chemistry (CHE1C01)	4	100
	Fundamentals of Forensic Science	4	100
	Indian Constitution, Criminal Major & Minor Acts	4	100
	Fundamentals of Forensic Science	4	100
	Indian Constitution, Criminal Major & Minor Acts	4	100
	Audit Course I Environment Studies	4	
	Total	30	750
II	Writing for Academic and Professional Success – ENG2A03	4	100
	Zeitgeist: Readings on Society and Cultures – ENG2A04	4	100
	Malayalam -Bhashayum Sahithyavum -II – MAL2A08(3)	4	100
	Poetry and Short Stories HIN2A08(3)		
	Organic Chemistry (CHE3C03)	3	75
	Forensic Chemistry and Toxicology	4	100
	Instrumentation Techniques	3	75
	Forensic Chemistry, Toxicology	4	100
	Mini Project	4	100
	Audit course II Disaster management	4	
Total	34	750	
III	Basic Mathematics and General Awareness	4	100
	Professional Business Skills	4	100
	Animal diversity and wildlife - ZO1CO1	3	75
	Arson and Explosives	3	75
	Forensic Physics	4	100
	Forensic Ballistics	4	100
	Forensic Physics & Ballistics	4	100
	Instrumentation techniques	4	100



	Audit course III Intellectual property rights	4	
	Total	34	750
IV	Entrepreneurship Development	4	100
	Public Health, Sanitation and Safety	4	100
	Physiology, toxicology and ethology (ZO3CO3)	3	75
	Forensic audio video analysis	3	75
	Forensic Dermatoglyphics and Questioned Documents	4	100
	Criminology, Penology, Victimology and Forensic Psychology	4	100
	Forensic Dermatoglyphics, Questioned Documents	4	100
	Mini Project	4	100
	Audit course IV Gender studies	4	
	Total	34	750
V	Forensic Medicine	3	75
	Forensic Biology and Serology	3	75
	Advanced techniques in personal identification	4	100
	Crime Investigation Techniques	4	100
	Cybercrime and cyber forensics	4	100
	Advanced techniques in personal identification Crime Investigation Technique	4	100
	Cybercrime and cyber forensics	4	100
	Criminology, Penology, Victimology and Forensic Psychology	4	100
Total	30	750	
VI	Term Paper	2	50
	Internship and Project	28	400
	Total	30	450